DON XML Strategy
& Issues for Logistics

30 Oct 2001

Scope

- TFW Thrust
- Navy XML Policy
- Namespaces
- XML Work Group
- Issues for Logistics

Task Force Web

- Web-enable all Navy Applications by 2004
- XML - a Keystone Technology of Technical Architecture
- Data Exchanges between Web-enabled Applications to use XML
- DON Enterprise Portal shall use XML

DON XML Policy

Interim Policy on the Use of Extensible Markup Language (XML) for Data Exchange, DON CIO, 6 September 2001

- **Follow W3C Recommendations:**
  - *XML Recommendation 6 Oct 2000*
  - *XML Schema Recommendation 2 May 2001*
- **Applies to all Organizations Developing, Acquiring, Maintaining IT and National Security Systems**
- **Compliments Data Management & Interoperability (DMI) SECNAVINST 5000.36 (draft)**

XML Policy Requirements

- Use Existing XML Components from COE XML Registry when Practical
- If no DoD, use Industry Standard Components
- Document & Register New XML Components into Appropriate COE XML Registry Namespaces
- Seek Joint Agreement on XML Tags among Functional Data Managers (FDMs)
- DoN FDMs Coordinate Functional Area with DOD Namespace Managers

Namespace
(W3C REC-xml-names-19990114)

An XML namespace is a collection of names, identified by a Uniform Resource Identifier (URI) reference, which are used in XML documents as element types and attribute names.

Namespace
(COE Data Emporium)

A Namespace is a collection of people, agencies, activities, and system builders who share an interest in a particular domain or practical application. This implies a common world view as well as common abstractions, common data representations and common metadata.

COE Namespace Requirements

- Have a Sponsor
- Have a Point of Contact
- Make Communal Definitions Visible
- Finance/Staff Namespace Administration
- Be Chartered by COE Chief Engineer
- Involve Specific COE System Implementations

Existing COE Namespaces
(Approved)

- Aerospace Operations
- Configuration Mgt
- Combat Support
- Finance & Accounting
- Geospatial & Imagery
- General Mil. Intell.
- Ground Operations

- Meteorological & Oceanographic
- Messages
- Personnel
- System Engineering
- Tracks & Reports

Existing COE Namespaces
(Developmental)

- Acquisition Logistics
- Controlled Exports
- DoD Enterprise Logistics

- Product Data
- Supply
- Transportation

Goal of XML Policy

- Improve Interoperability Between Systems
- Facilitate Efficient Data Exchange
- Support E-Business Practices
- Reduce Ambiguity of Information

DON XML Work Group

- Commissioned by DON CIO
- Mission: provide leadership and guidance to maximize the value and effectiveness of emerging XML component technologies implemented across the DON enterprise
- Approach: Collaboration; Consolidation, Alignment, Best Practices; Guidance and Policies

XML WG Deliverables

- XML Developer's Guide (Nov 01)
- "Cross-Over" Guidance
  - XML Primer (Nov 01)
  - XML Component Drill-Downs
- Communications and Education
- **NEXT MTG: 7 - 9 Nov**

XML Developer's Guide
Impact on Logistics

- Unnecessarily more time consuming and costly to develop TM/ETM DTDs
- Lack of true Guidance for XML data destined for ETM/IETMs
- Misinterpretation of guidance due to different meaning of terms and concepts for data element world vs ETM/IETM world

Issues for Logistics

- Establish FDM and Data Management per SECNAVINST 5000.36 (draft)
  - for: Logistics, Acquisition Logistics, Supply, Product Data
- Strategy for Existing SGML/XML applications, DTDs, Schemas
- Strategy for New Technical Data Applications using XML